

Environmental Protection Agency

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§ 471.26 Effluent limitations representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT). [Reserved]

Subpart C—Nickel-Cobalt Forming Subcategory

§ 471.30 Applicability; description of the nickel-cobalt forming subcategory.

This subpart applies to discharges of pollutants to waters of the United States, and introductions of pollutants into publicly owned treatment works from the process operations of the nickel-cobalt forming subcategory.

§ 471.31 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).

Except as provided in 40 CFR 125.30–125.32, any existing point source subject to this subpart must achieve the following effluent limitations for the process operations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

(a) *Rolling spent neat oils—Subpart C—BPT.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling spent emulsions.*

SUBPART C—BPT

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt rolled with emulsions	
Chromium	0.075	0.031
Nickel	0.327	0.216
Fluoride	10.1	4.49
Oil and grease	3.4	2.04
TSS	6.97	3.32
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) *Rolling contact cooling water.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt rolled with water	
Chromium	1.66	0.679
Nickel	7.24	4.79
Fluoride	225	99.6
Oil and grease	75.4	45.3
TSS	155	73.5
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) *Tube Reducing Spent Lubricant—Subpart C—BPT.*

(1) There shall be no discharge of process wastewater pollutants except as provided under paragraph (d)(2) of this section.

(2) Process wastewater pollutants may be discharged, with no allowance for any pollutants discharged, provided the facility owner or operator demonstrates, on the basis of analytical methods set forth in or approved pursuant to 40 CFR part 136, that the concentrations of nitrosamine compounds in the wastewater discharged from the tube reducing process do not exceed 0.050 mg/l of N-nitrosodimethylamine, 0.020 mg/l of N-nitrosodiphenylamine, and 0.020 mg/l of N-nitrosodi-n-propylamine.

(3) The demonstration required under paragraph (d)(2) of this section shall be made once per month until the demonstration has been made for all three nitrosamine compounds for six consecutive months, after which time the demonstration may be made once per quarter. If a sample is found to contain any of the foregoing nitrosamine compounds at concentrations greater than those specified in paragraph (d)(2) of this section, the actions described in paragraph (d)(4) of this section shall be taken, and the demonstration required under paragraph (d)(2) of this section shall be made once per month until it has been made for all three nitrosamine compounds for six consecutive months.

(4) If sampling results show that any of the foregoing nitrosamine compounds is present in the process wastewater at concentrations greater than those specified in paragraph (d)(2) of

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this section, the facility owner or operator shall ensure that, within thirty days of receiving written notification of the sampling results, there is no further discharge of tube reducing spent lubricant wastewater until the owner or operator:

(i) Performs a subsequent analysis which demonstrates that the concentrations of the foregoing nitrosamine compounds do not exceed the levels specified in paragraph (d)(2) of this section; or

(ii) Substitutes a new tube reducing lubricant and thereafter complies with the requirements of paragraph (d)(3) of this section; or

(iii) Determines the source of the pollutant whose concentration exceeded the level specified in paragraph (d)(2) of this section and demonstrates to the satisfaction of the NPDES issuing authority that such source has been eliminated.

(5) The concentration limits specified in paragraph (d)(2) of this section apply at the point of discharge from the tube reducing process. However, sampling after the tube reducing wastewater has been commingled with other wastewaters is permitted if:

(i) Any dilution caused by the other wastewaters is taken into account in determining the appropriate (i.e., lower) allowable discharge concentration; and

(ii) An analytical method of sufficient sensitivity is used to measure the levels of each of the foregoing nitrosamine compounds in the wastewaters being sampled.

(e) *Drawing spent neat oils—Subpart C—BPT.* There shall be no discharge of process wastewater pollutants

(f) *Drawing spent emulsions.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt drawn with emulsions	
Chromium	0.042	0.017
Nickel	0.183	0.121
Fluoride	5.68	2.52
Oil and grease	1.91	1.15
TSS	3.91	1.86
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

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(g) *Extrusion spent lubricants—Subpart C—BPT.* There shall be no discharge of process wastewater pollutants.

(h) *Extrusion press or solution heat treatment contact cooling water.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt heat treated	
Chromium	0.037	0.015
Nickel	0.160	0.106
Fluoride	4.95	2.20
Oil and grease	1.67	0.999
TSS	3.41	1.63
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) *Extrusion press hydraulic fluid leakage.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt extruded	
Chromium	0.102	0.042
Nickel	0.446	0.295
Fluoride	13.8	6.13
Oil and grease	4.64	2.79
TSS	9.51	4.53
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(j) *Forging equipment cleaning wastewater.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt forged	
Chromium	0.018	0.007
Nickel	0.077	0.051
Fluoride	2.38	1.06
Oil and grease	0.800	0.480
TSS	1.640	0.780
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) *Forging contact cooling water.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of forged nickel-cobalt cooled with water	
Chromium	0.209	0.086
Nickel	0.910	0.602
Fluoride	28.2	12.5
Oil and grease	9.48	5.69
TSS	19.5	9.25
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(l) *Forging press hydraulic fluid leakage.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt forged	
Chromium	0.083	0.034
Nickel	0.359	0.238
Fluoride	11.2	4.94
Oil and grease	3.74	2.25
TSS	7.67	3.65
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(m) *Forging spent lubricants—Subpart C—BPT.* There shall be no discharge of process wastewater pollutants.

(n) *Stationary casting contact cooling water.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt cast with stationary casting methods	
Chromium	5.33	2.18
Nickel	23.3	15.4
Fluoride	720	320
Oil and grease	242	145
TSS	496	236
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(o) *Vacuum melting steam condensate—Subpart C—BPT.* There shall be no allowance for the discharge of process wastewater pollutants.

(p) *Metal powder production atomization wastewater.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt metal powder atomized	
Chromium	1.16	0.472
Nickel	5.03	3.33
Fluoride	156	69.2
Oil and grease	52.4	31.5
TSS	108	51.1
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(q) *Annealing and solution heat treatment contact cooling water—Subpart C—BPT.* There shall be no allowance for the discharge of process wastewater pollutants.

(r) *Wet air pollution control scrubber blowdown.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt formed	
Chromium	0.357	0.146
Nickel	1.56	1.03
Fluoride	48.2	21.4
Oil and grease	16.2	9.72
TSS	33.2	15.8
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(s) *Surface treatment spent baths.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt surface treated	
Chromium	0.412	0.169
Nickel	1.80	1.19
Fluoride	55.7	24.7
Oil and grease	18.7	11.2
TSS	38.4	18.3
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(t) *Surface treatment rinse.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt surface treated	
Chromium	10.4	4.25
Nickel	45.3	30.0
Fluoride	1410	623
Oil and grease	472	283
TSS	968	460
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(u) *Alkaline cleaning spent baths.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt alkaline cleaned	
Chromium	0.015	1.52
Nickel	16.2	10.7
Fluoride	502	223
Oil and grease	169	101
TSS	346	165
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(v) *Alkaline cleaning rinse.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt alkaline cleaned	
Chromium	1.03	0.420
Nickel	4.48	2.96
Fluoride	139	61.5
Oil and grease	46.6	28.0
TSS	95.6	45.5
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(w) *Molten salt rinse.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt treated with molten salt	
Chromium	3.72	1.52
Nickel	16.2	10.7
Fluoride	502	223
Oil and grease	169	101
TSS	346	165
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(x) *Ammonia rinse.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt treated with ammonia solution	
Chromium	0.007	0.003
Nickel	0.029	0.019
Fluoride	0.881	0.391
Oil and grease	0.296	0.178
TSS	0.607	0.289
pH		(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(y) *Sawing or grinding spent emulsions.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt sawed or ground with emulsions	
Chromium	0.018	0.007
Nickel	0.076	0.050
Fluoride	2.35	1.04
Oil and grease	0.788	0.473
TSS	1.62	0.769
pH		(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(z) *Sawing or grinding rinse.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of sawed or ground nickel-cobalt rinsed	
Chromium	0.797	0.326
Nickel	3.48	2.30
Fluoride	108	47.8
Oil and grease	36.2	21.7
TSS	74.2	35.3
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(aa) *Steam Cleaning Condensate.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt steam cleaned	
Chromium	0.013	0.006
Nickel	0.058	0.039
Fluoride	1.79	0.795
Oil and grease	0.602	0.361
TSS	1.24	0.587
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(bb) *Hydrostatic tube testing and ultrasonic testing wastewater—Subpart C—BPT.* There shall be no allowance for the discharge of process wastewater pollutants.

(cc) *Degreasing spent solvents—Subpart C—BPT.* There shall be no discharge of process wastewater pollutants.

(dd) *Dye penetrant testing wastewater.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt tested with dye penetrant method	
Chromium	0.094	0.039
Nickel	0.409	0.271
Fluoride	12.7	5.63
Oil and grease	4.26	2.56
TSS	8.74	4.16
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(ee) *Electrocoating rinse.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt electrocoated	
Chromium	1.48	0.607
Nickel	6.47	4.28
Fluoride	201	89.0
Oil and grease	67.4	40.5
TSS	138	65.7
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(ff) *Miscellaneous wastewater sources.*

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/off-kg (pounds per million off-pounds) of nickel-cobalt formed	
Chromium	0.108	0.044
Nickel	0.473	0.313
Fluoride	14.7	6.50
Oil and grease	4.92	2.95
TSS	10.1	4.80
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 34270, Aug. 23, 1985; 51 FR 2884, Jan. 22, 1986, as amended at 54 FR 11348, Mar. 17, 1989]

§ 471.32 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT):

(a) *Rolling spent neat oils—Subpart C—BAT.* There shall be no discharge of process wastewater pollutants.

(b) *Rolling spent emulsions.*